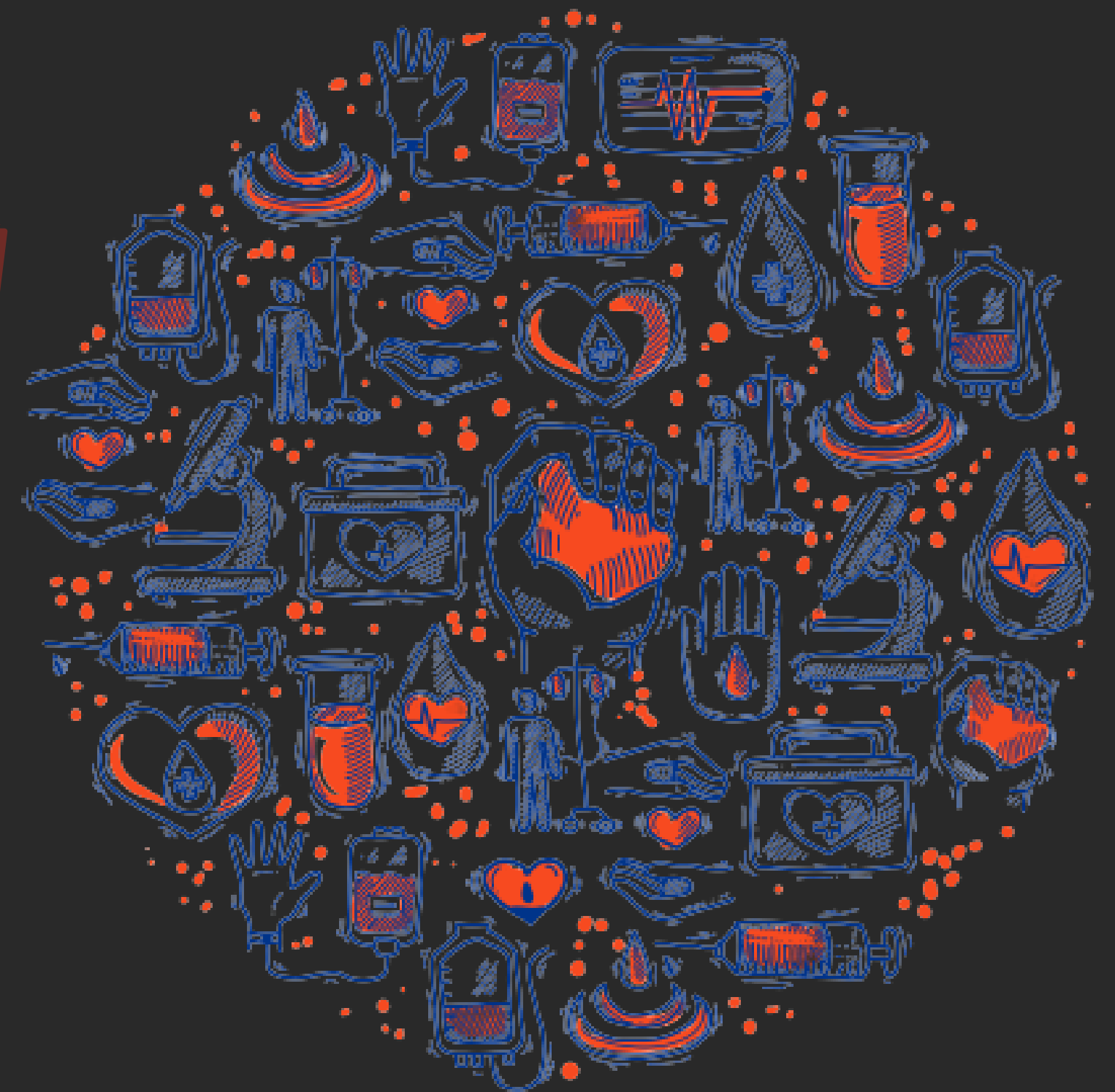


KERVE DONATION

A Blood Donating Platform on Blockchain



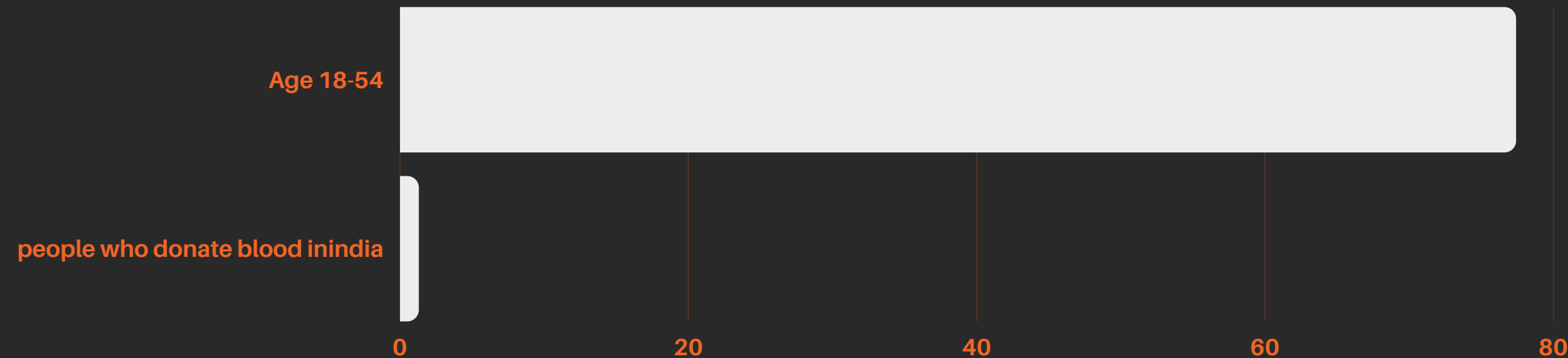
Theme - **Healthcare**

Team Name - **.EXE**

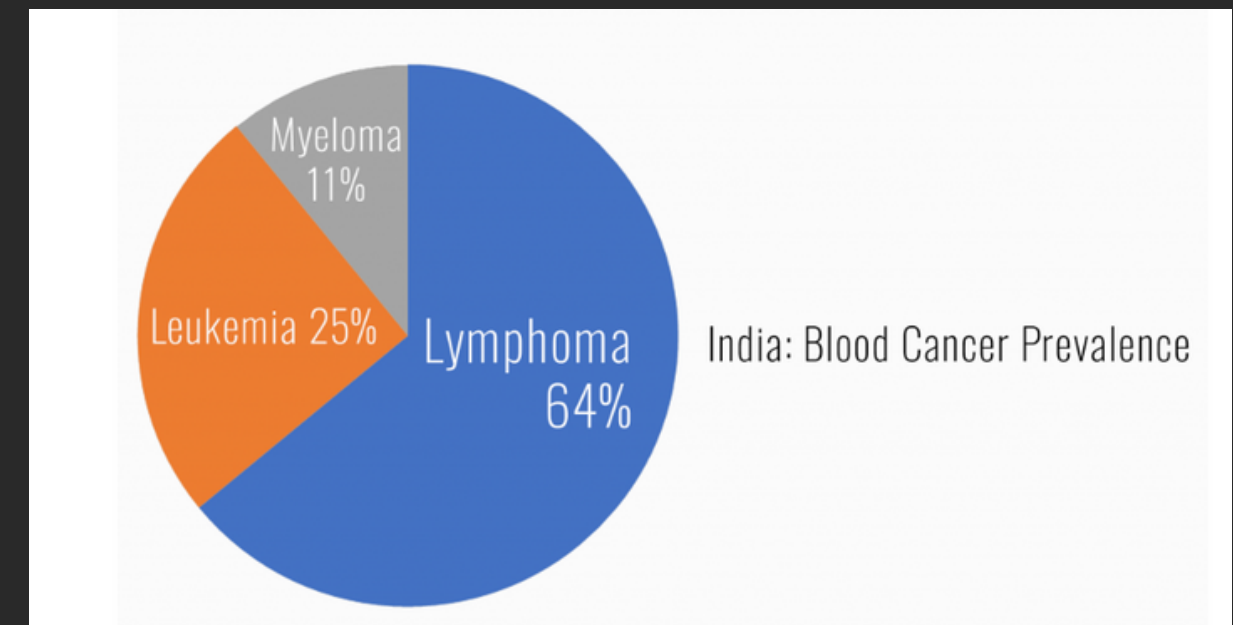
Blood Donation. ❤️

Health Comes First

Some Previous data of Blood Donors in INDIA



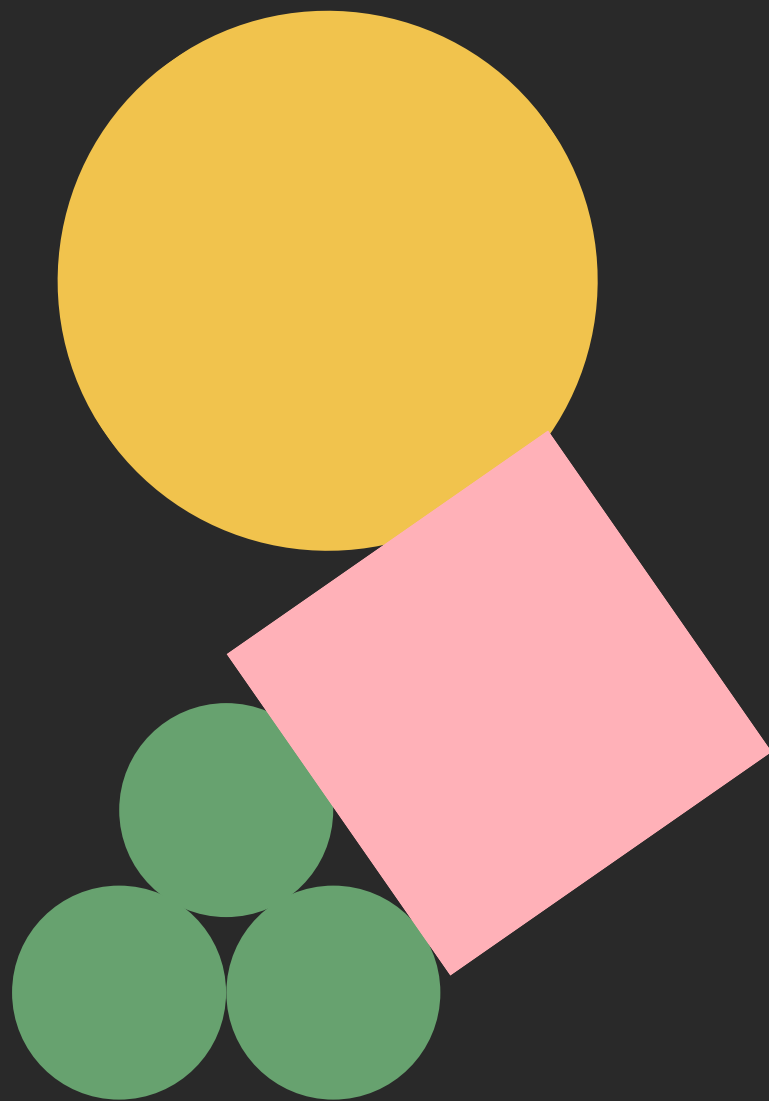
25% People Effected With Blood CANCER IN INDIA



So As per the data of 2020 only 1.6% of Indians Donate blood

About Problem Statement

The dApp is created to make the blood donation transparent and decentralised. It helps us to know whether the blood donated reaches the needed and also donate blood as per request so that there is no blood wastage and spoilage. ejs template is used to implement the frontend and ethereum solidity contract is used in the backend. ejs template is very similar to HTML which makes it easy to design the user interface and ethereum as a backend will make entire app decentralised and transparent.



Things to improve the Blood Donation



1. Donor registration

Here the donor register his details to an authority who is registered as superadmin through the contract deployed by the authority. The details enrolled into dApp are

- Name
- Age
- Location
- Blood group
- Medical condition
- Mobile number

These details would be mapped to an address which is given to user. The function 'setDonor()' will write these details to the chain.

Things to improve the Blood Donation



2. Requesting blood

The member of the network/ hospital can request the blood by providing details such as:

- Blood group
- Location

These details are written to chain by mapping the details to the address of requester. Function 'setReq()' write these details to chain.

3. Accepting request

The registered donor can accept the request. Function 'requestAccpt()' is used in order to accept the requests by the potential donors.

Things to improve the Blood Donation

4. Transfer of blood donor coin

the accepted donor is rewarded with blood donor coins to promote and encourage future blood donations. Function 'transfer()' sends the bdc coins to the donors account.

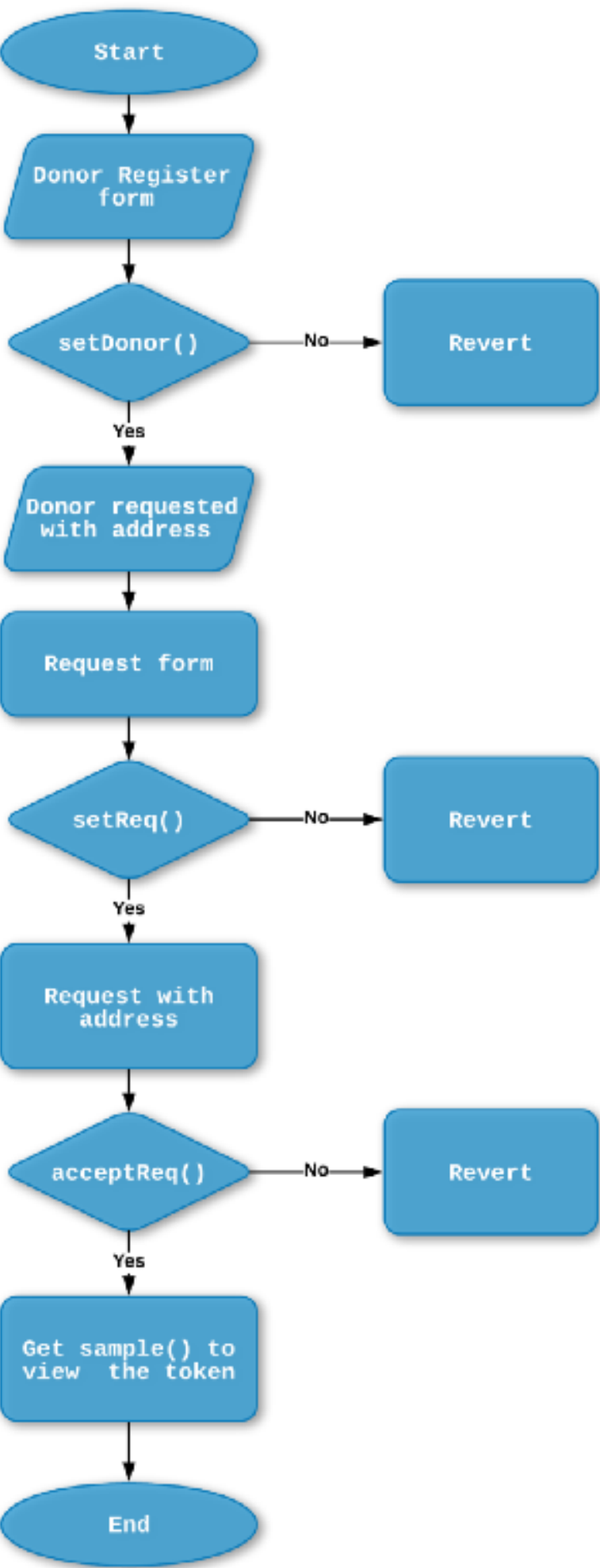
5. Timer for blood donation

In general, once blood is donated by a person is not allowed to donate again within the span of 3 months. It is recommended to wait for a 3 months gap for rejuvenating blood cells and other contents.

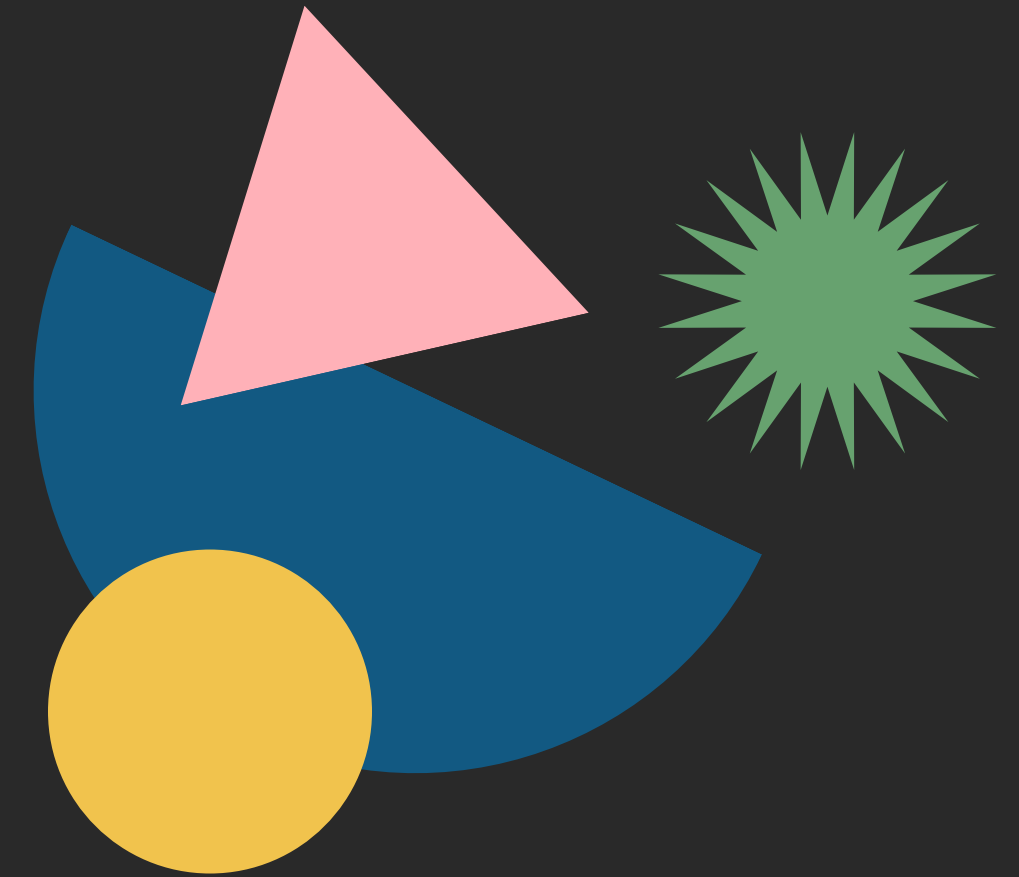
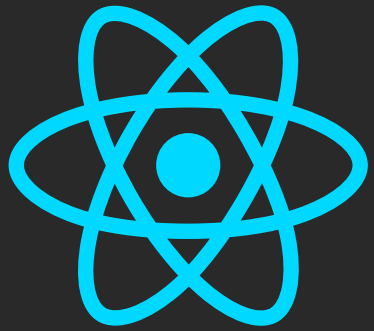
So in this we had provided a timer of 30 seconds for demo purposes.



User Flow Diagram



Tech Stacks



mongoDB